

ABSTRACT OF THE DISCLOSURE

This invention relates to a method and apparatus for channel estimation.

A method of determining a maximum likelihood frequency domain estimate of the channel response of a channel between at least one transmitting peer and at least one
5 receiving peer, said method comprising transmitting N_U reference tones from said transmitting peer to said receiving peer; capturing said N_U reference tones at said receiving peer; and determining at said receiving peer from said N_U reference tones said
maximum likelihood frequency domain estimate of said channel response at N_F
predetermined frequencies by directly exploiting the finiteness of the time response of
10 said channel.

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